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EXAMPLE OF THE INSTITUTE OF RANK ASSAULT

State Scientific Research

Frof I. Ya. Bashilov

During the summer of the current year [1932] two expeditions to Central Asia were organized by Girchaet. One of the expeditions was sent to the beds of uranium-redime cree near the city of Khokkhent in the Emithix SSR, and the second was sent to the jakend of Cheleken in the Caspian Sea, in the Turingen SSR.

The task of the first expedition was: (1) exploration of the Taboskar bed of arming and radius with regard to other components included in the rook; (2) the solication of various sorts of cross for tests according to the methods used in the laboratories of Girednet and the Moskov Institute of Microchanical Technology.

As a result of the work of the expedition it was established that the content of borium oxide in the ore is not so great, and consequently the processing of the ores was made more difficult. Besides this, during the ownest year a considerable amount of rich ore material was discovered in this bed with a content of uranous and uranic oxide up to 1.7%, and in some individual tests even higher. Both of these circumstances fully indicate the industrial significance of the bed and increase the possibility of organizing an experimental plant on its base for the extraction of radius.

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development because of the low-evening content of region and urminus. Also, the possible existence in the ore of berium oxide and coluble subplurio make bould complicate the processing. But the undoubtedly large total supplies of redium and urminus have necessitated more attentive study of the bed likelf and methods of processing the ore. We are exist of extensive work, original and new means of processing the ore of this bed have been found, and extensive prospecting has determined all of its features. The Tabombar bod is becoming an important industrial dijective, and the beginding of explicitation is set by Clavredmet for 1979.

attracting radion from radion-bearing being vaters under production conditions. These vaters, discharged together with oil from wells, are a completely now type of raw unterial for obtaining radium. This was first established by Sowiet research in the last 5-8 years. The vaters on Chelefon Island are distinguished by a high temperature (up to 50°), with a large content of soluble salta, and contain on the average from 0.3 to 0.5 mg of radium for every 1,000 cubic meters. Lengthy inboratory work preceding the expedition was the basis for planning a series of possible methods for extracting radium from much waters. As a result of the work of the expedition, the difficult problem of extracting a small amount of radium from an enormous mass of water was solved. A very alarge and all methods for organizing a continuously operating station.

The expedition worked in two directions. It sought, first, methods of extracting redium from the water in the form of certain concentrations, and secondly, the means of separating these concentrations from the mass of the water. The latter was especially difficult, as it had to be done very obsolutely and very cheaply so that the cost of the radium would not exceed the extering price.

Todine to already being extracted from these waters, and the extraction of radium is possible. In conducting this work directed was helped by the edministration of Vokhimfarm, and in particular by the administration of the Cheleken indine plant in its field.

The success of both expeditions, apart from their great theoretical enterest, permits a great increase in radium supplied in research laboratories and medical establishments of the Societ Union and a vider use of this exceptionally rare and expensive metal.

Both expeditions carried out their work with the constant and effective support of local party and Soviet organizations of the Tailnik SSR and the Unrimen SSR. This determined the final success of their work to a considerable extent.

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